

Jae-Hyung Jeon

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

4,310
citations

361388

20
h-index

330122

37
g-index

39
all docs

39
docs citations

39
times ranked

2676
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractal and Knot-Free Chromosomes Facilitate Nucleoplasmic Transport. <i>Physical Review Letters</i> , 2022, 128, 038101.	7.8	3
2	Bayesian inference of scaled versus fractional Brownian motion. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2022, 55, 194003.	2.1	15
3	Formation of cellular close-ended tunneling nanotubes through mechanical deformation. <i>Science Advances</i> , 2022, 8, eabj3995.	10.3	16
4	A mini-review of the diffusion dynamics of DNA-binding proteins: experiments and models. <i>Journal of the Korean Physical Society</i> , 2021, 78, 408-426.	0.7	11
5	Bayesian inference of Lévy walks via hidden Markov models. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 484001.	2.1	12
6	Objective comparison of methods to decode anomalous diffusion. <i>Nature Communications</i> , 2021, 12, 6253.	12.8	109
7	Stochastic chromatin packing of 3D mitotic chromosomes revealed by coherent X-rays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	4
8	Anomalous diffusion of active Brownian particles cross-linked to a networked polymer: Langevin dynamics simulation and theory. <i>Soft Matter</i> , 2020, 16, 9188-9201.	2.7	19
9	Langevin Dynamics Driven by a Telegraphic Active Noise. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	20
10	Mapping the spectrum of 3D communities in human chromosome conformation capture data. <i>Scientific Reports</i> , 2019, 9, 6859.	3.3	7
11	Immature dendritic cells navigate microscopic mazes to find tumor cells. <i>Lab on A Chip</i> , 2019, 19, 1665-1675.	6.0	14
12	First-passage statistics under stochastic resetting in bounded domains. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 224001.	2.1	19
13	Neuronal messenger ribonucleoprotein transport follows an aging Lévy walk. <i>Nature Communications</i> , 2018, 9, 344.	12.8	97
14	Asymmetric polar localization dynamics of the serine chemoreceptor protein Tsr in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2018, 13, e0195887.	2.5	3
15	Fluctuations of random walks in critical random environments. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20427-20438.	2.8	13
16	Protein Crowding in Lipid Bilayers Gives Rise to Non-Gaussian Anomalous Lateral Diffusion of Phospholipids and Proteins. <i>Physical Review X</i> , 2016, 6, .	8.9	152
17	Superdiffusion dominates intracellular particle motion in the supercrowded cytoplasm of pathogenic <i>Acanthamoeba castellanii</i> . <i>Scientific Reports</i> , 2015, 5, 11690.	3.3	159
18	Geometry controlled anomalous diffusion in random fractal geometries: looking beyond the infinite cluster. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30134-30147.	2.8	28

#	ARTICLE	IF	CITATIONS
19	An effective mesoscopic model of double-stranded DNA. <i>Journal of Biological Physics</i> , 2014, 40, 1-14.	1.5	7
20	Scaled Brownian motion: a paradoxical process with a time dependent diffusivity for the description of anomalous diffusion. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15811-15817.	2.8	170
21	Anomalous diffusion models and their properties: non-stationarity, non-ergodicity, and ageing at the centenary of single particle tracking. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24128-24164.	2.8	1,286
22	Noisy continuous time random walks. <i>Journal of Chemical Physics</i> , 2013, 139, 121916.	3.0	90
23	Anomalous diffusion and power-law relaxation of the time averaged mean squared displacement in worm-like micellar solutions. <i>New Journal of Physics</i> , 2013, 15, 045011.	2.9	186
24	Anomalous and normal diffusion of proteins and lipids in crowded lipid membranes. <i>Faraday Discussions</i> , 2013, 161, 397-417.	3.2	170
25	Publisher's Note: Inequivalence of time and ensemble averages in ergodic systems: Exponential versus power-law relaxation in confinement [Phys. Rev. E 85, 021147 (2012)]. <i>Physical Review E</i> , 2012, 85, .	2.1	6
26	Quantifying supercoiling-induced denaturation bubbles in DNA. <i>Soft Matter</i> , 2012, 8, 8651.	2.7	50
27	Anomalous Diffusion of Phospholipids and Cholesterols in a Lipid Bilayer and its Origins. <i>Physical Review Letters</i> , 2012, 109, 188103.	7.8	257
28	Inequivalence of time and ensemble averages in ergodic systems: Exponential versus power-law relaxation in confinement. <i>Physical Review E</i> , 2012, 85, 021147.	2.1	104
29	<i>In Vivo</i> Anomalous Diffusion and Weak Ergodicity Breaking of Lipid Granules. <i>Physical Review Letters</i> , 2011, 106, 048103.	7.8	553
30	Single particle tracking in systems showing anomalous diffusion: the role of weak ergodicity breaking. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1800.	2.8	325
31	Anomalous Diffusion and Fractional Transport Equations. , 2011, , 3-32.		4
32	Analysis of short subdiffusive time series: scatter of the time-averaged mean-squared displacement. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 252001.	2.1	56
33	Fractional Brownian motion and motion governed by the fractional Langevin equation in confined geometries. <i>Physical Review E</i> , 2010, 81, 021103.	2.1	216
34	Supercoiling Induces Denaturation Bubbles in Circular DNA. <i>Physical Review Letters</i> , 2010, 105, 208101.	7.8	70
35	How Topological Constraints Facilitate Growth and Stability of Bubbles in DNA. <i>Biophysical Journal</i> , 2008, 95, 3600-3605.	0.5	19
36	The effect of sequence correlation on bubble statistics in double-stranded DNA. <i>Journal of Chemical Physics</i> , 2006, 125, 164901.	3.0	11

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37	A semiflexible chain model of local denaturation in double-stranded DNA. Journal of Chemical Physics, 2006, 124, 164905.	3.0	26